

WHAT IS CLAIMED IS:

- 1 1. A transmitter circuit comprising:
2 an oscillator circuit including a surface acoustic wave (SAW)
3 resonator, the oscillator circuit generating a carrier signal; and
4 an amplifier circuit receiving the carrier signal and receiving a data
5 signal, the amplifier circuit generating an output signal as the carrier signal
6 modulated with the data signal.
- 1 2. The transmitter circuit of claim 1 further comprising:
2 an antenna coupled to the amplifier circuit to transmit the output
3 signal.
- 1 3. The transmitter circuit of claim 1 further comprising:
2 control logic configured to generate the data signal.
- 1 4. The transmitter circuit of claim 3 wherein the control logic
2 comprises:
3 a microprocessor.
- 1 5. The transmitter circuit of claim 3 further comprising:
2 an assertable switch connected to the control logic, wherein the
3 control logic is configured such that assertion of the switch causes the control logic
4 to generate the data signal.
- 1 6. The transmitter circuit of claim 1 wherein the oscillator circuit
2 further comprises:
3 a bipolar junction transistor.
- 1 7. The transmitter circuit of claim 1 wherein the amplifier circuit
2 further comprises;
3 a bipolar junction transistor.

1 8. The transmitter circuit of claim 1 wherein the carrier signal has
2 a frequency of at least 300 MHz.

1 9. An article of manufacture comprising:
2 a housing;
3 at least one circuit board;
4 an oscillator circuit on the at least one circuit board, the oscillator
5 circuit including a surface acoustic wave (SAW) resonator, the oscillator circuit
6 generating a carrier signal; and
7 an amplifier circuit on the at least one circuit board, the amplifier
8 circuit receiving the carrier signal and receiving a data signal, the amplifier circuit
9 generating an output signal as the carrier signal modulated with the data signal.

1 10. The article of claim 9 further comprising:
2 an antenna coupled to the amplifier circuit to transmit the output
3 signal.

1 11. The article of claim 9 further comprising:
2 control logic configured to generate the data signal.

1 12. The article of claim 11 wherein the control logic comprises:
2 a microprocessor.

1 13. The article of claim 11 further comprising:
2 an assertable switch connected to the control logic, wherein the
3 control logic is configured such that assertion of the switch causes the control logic
4 to generate the data signal.

1 14. The article of claim 9 wherein the oscillator circuit further
2 comprises:
3 a bipolar junction transistor.

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1 15. The article of claim 9 wherein the amplifier circuit further
2 comprises;
3 a bipolar junction transistor.

1 16. The article of claim 9 wherein the carrier signal has a
2 frequency of at least 300 MHz.

1 17. A method of transmitting comprising:
2 generating a carrier signal with an oscillator circuit including a
3 surface acoustic wave (SAW) resonator;
4 generating a data signal;
5 generating an output signal with an amplifier circuit receiving the
6 carrier signal and receiving the data signal, the amplifier circuit generating an output
7 signal as the carrier signal modulated with the data signal; and
8 transmitting the output signal.

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